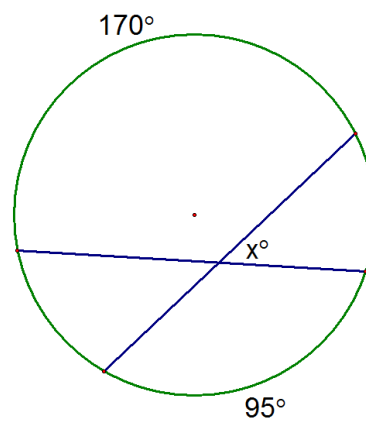
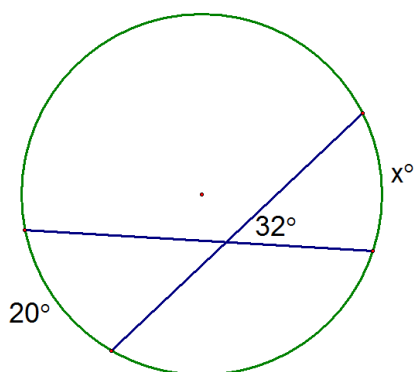
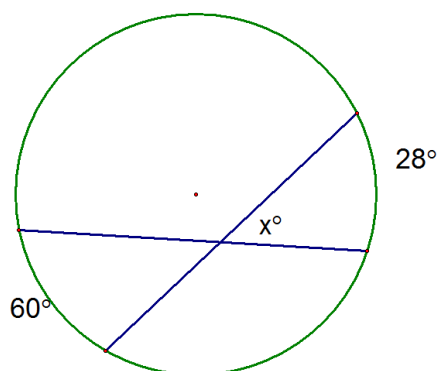
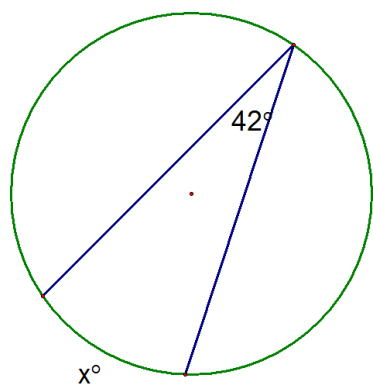
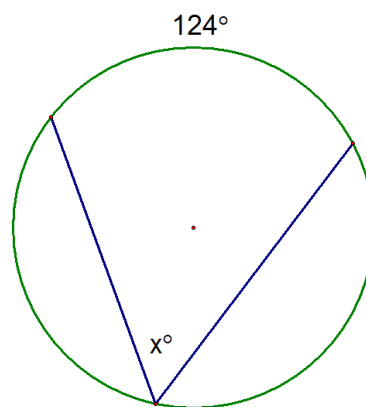
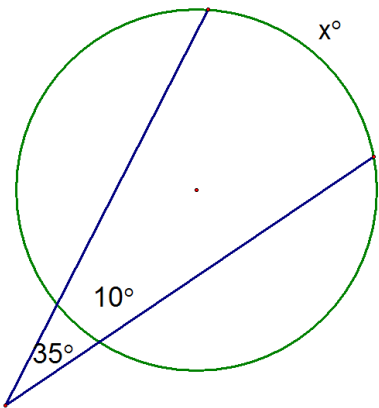
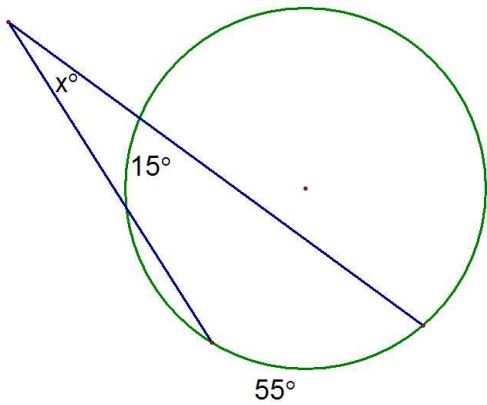


Solve for  $x$  unless directed otherwise.

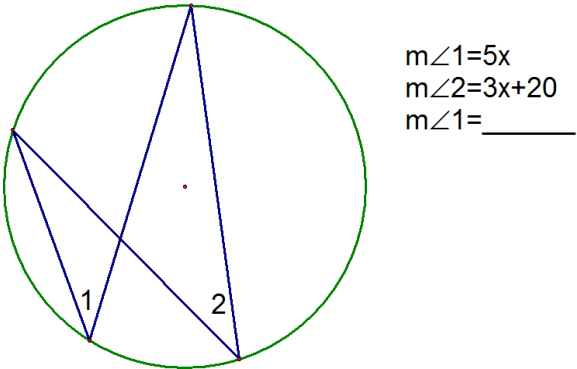
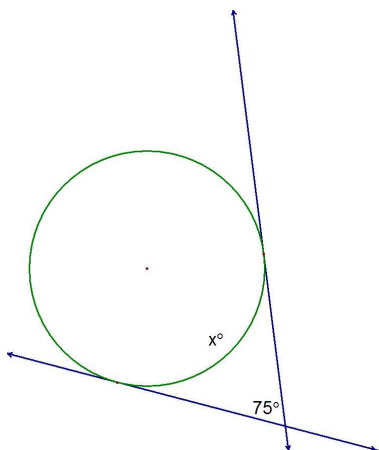
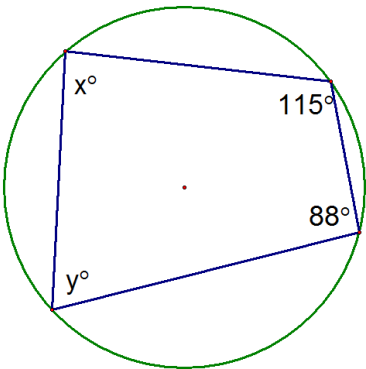
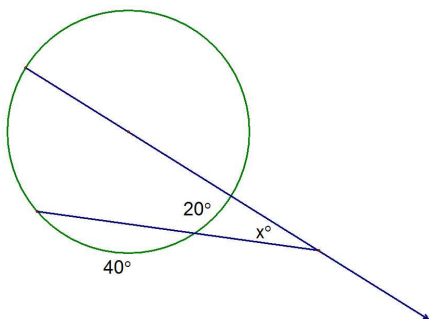
Segments that appear to be tangent are tangent.

Pictures are not drawn to scale.





Diameter



$m\angle 1 = 5x$   
 $m\angle 2 = 3x + 20$   
 $m\angle 1 = \underline{\hspace{2cm}}$

